

## AGRICULTURE, FOOD & NATURAL RESOURCES Sample North Dakota Career Cluster Plan of Study www.nd.gov/cte • www.careerclusters.org

Name	North Dakota
School	cte
Date	Career and Technica

SAMPLE OCCUPATIONS RELATING TO THIS CAREER CLUSTER				
Occupations				
Agriculture Sales Representative • Food Scientist • Butcher • Biochemist • Nutritionist Bacteriologist • Food Inspector • Produce Buyer				
Geneticist ◆ Soil/Water Specialist ◆ Botanist ◆ Agriculture Lender ◆ Biological Technician ◆ Commodity Marketing Specialist				
Wildlife Biologist ◆ Animal Nutritionist ◆ Livestock Buyer ◆ Agriculture Technician ◆ Veterinary Assistant ◆ Zoologist ◆ Farmer/Rancher				
Agriculture Equipment Operator • Electrical Engineering Technician • Parts Salesperson • GPS Technician • Communications Technician				
Cartographer • Range Manager • Ecologist • Fish & Game Officer • General Operations Manager • Commercial Fisherman				
Pollution Prevention Technician ● Hazardous Materials Handler ● Water Quality Manager ● Toxicologist ● Recycler ● Waste Technician				
Sales Manager • Loan Officer • Ag Economist • Field Representative • Ag Chemical Dealer • Chemical Sales Representative • Ag Products Buyer				

SUCCESTED COLUMN OF HIGH SCHOOL STRING								
SUGGESTED COURSE OF HIGH SCHOOL STUDY  It is suggested that students consider appropriate dual credit, articulation, or advanced placement opportunities for postsecondary credit.								
English (four units required to graduate)	Math (two units required to graduate)	Science (two units required to graduate)	Social Studies (three units required to graduate)	Physical Education (one unit required to graduate)	North Dakota Career & Technical Education and Other Electives (one unit of foreign or Native American language, fine arts, or career and technical education required to graduate)	Additional Suggested Learning Opportunities		
□ English I □ English II □ English III □ English IV	□ Algebra I □ Geometry □ Algebra II	<ul> <li>□ Physical Science</li> <li>□ Biology</li> <li>□ Chemistry or</li> <li>□ Advanced</li> <li>□ Biology</li> </ul>	□ World History □ U.S. History □ Government □ Economics	Physical Education Health	□ Introduction to Agriculture □ Foundations of Agriculture □ Agriscience Technology I, II, III, or IV □ Agriculture Sales & Service □ Agricultural Business Management □ Agricultural Mechanics I, II, III, or IV □ Botany/Horticulture Science I or II □ Natural/Environmental Resources □ Agricultural Processing □ World Agricultural Science & Tech. □ Agriculture III or IV □ Individual Agricultural Studies □ Community Development □ Supervised Agricultural Experience	School-Based:      FFA     Career Research     Cooperative Education     Internship     Job Shadowing     Service Learning Project Community-Based:     Mentorship     Volunteer     Part-time Employment		

SAMPLE NORTH DAKOTA POSTSECONDARY PROGRAMS RELATED TO THIS CAREER CLUSTER							
Pathway	Associate Degree or Less	Bachelors Degree	Masters Degree or More				
FOOD PRODUCTS & PROCESSING		☐ Ag Food Safety	☐ Ag Food Safety				
SYSTEMS			☐ Cereal Science				
PLANT SYSTEMS	☐ Agronomy Technician	☐ Turf Management	☐ Plant Pathology				
	☐ Crop & Weed Science	☐ Crop & Weed Science	☐ Entomology				
	☐ Turf Management	☐ Soil Science	☐ Horticulture				
ANIMAL SYSTEMS	☐ Equine Studies	☐ Equine Studies	☐ Animal & Range Sciences				
	☐ Animal & Range Sciences	☐ Animal & Range Sciences	☐ Zoology				
POWER, STRUCTURAL & TECHNICAL	☐ Power Plant Technology						
SYSTEMS	☐ Process Plant Technology						
NATURAL RESOURCES SYSTEMS	☐ Water Quality Technology	☐ Wildlife, Fisheries, Tech, Sci	☐ Natural Resource Mgt				
	☐ Biology/Fisheries & Wildlife	☐ Biology/Fisheries & Wildlife					
ENVIRONMENTAL SERVICE SYSTEMS	☐ Environmental & Conservation Science	☐ Environmental Geosciences	☐ Environmental & Conservation Science				
	☐ Environ Tech/Global Info Systems		☐ Environmental Engineering				
AGRIBUSINESS SYSTEMS	☐ Ag Production/Farm/Ranch Management	☐ Ag Sales & Service	☐ International Agribusiness				
	☐ Ag Sales & Service	☐ Ag Business & Management					
	Ag Pusinoss & Managament						